Choose graph windows that reveal the important features of a model.

Key skills | Free preview

Learning target: Choose graph windows that reveal the important features of a model.

A graphing tool needs explicit rules, a suitable window and an interpretation of its inputs. Changing an intercept parameter shifts a linear graph without changing its gradient. A table can confirm a visually estimated intersection, and algebra provides an independent check. A graph’s continuous appearance does not remove integer or other practical domain restrictions.

Try the mathematics

Task 1. Enter y1=18+4x and y2=42+2x in a graphing tool. Use 0≤x≤20 and 0≤y≤130. Make a table at x=0,6,12,18 and find the intersection both graphically and algebraically.

Continue with the full worksheet

The complete resource has 2 focused task sets and substantive worked solutions. Use an exercise book or print the A4 worksheet. This preview shows the first task without its full solution.

Find this resource: https://resources.aspiretopowerlearning.com.au/vce/skills/aspire-internal-gm-u1-o3-cross-ks-06/

Study-design reference

VCE Mathematics Study Design 2023-2027, version 1.1 (November 2022). General Mathematics; Unit 1; Outcome 3; Key skills; bullet 6; p. 33.

The learning target is a concise paraphrase. Aspire reference: aspire-internal-gm-u1-o3-cross-ks-06. This is an internal identifier, not an official VCAA code.

Free preview: share intact with attribution, without charging. Full resource rights are not included.

Original independent practice. Not published or endorsed by VCAA. The activity is not an official SAC, examination or complete treatment of every clause of a broad curriculum requirement.